

CITY OF SAN DIEGO
M E M O R A N D U M

DATE: October 28, 2002

TO: Captain Mastergeorge, Fire Department Regional Training Facility Manager

FROM: Don Costello, Asbestos & Lead Program Inspector
via Alan J. Johanns, Asbestos & Lead Program Manager, Environmental Services
Department, Environmental Protection Division

SUBJECT: Asbestos Clearance Sampling at Fire Department Regional Training Facility Building
#88

Per your request, the City of San Diego's Asbestos & Lead Management Program (ALMP) provided asbestos project management services for the asbestos abatement work in the Fire Department Regional Training Facility Building #88. The project involved the removal of approximately 1200 square feet of asbestos-containing flooring and mastic material on the first and second floor (southeast corner). During the removal, the adjoining areas on the first and second floor were inspected and loose tiles were collected and properly disposed of in accordance with all applicable regulations. All work was performed by Critical Cleaning Service, a licensed asbestos contractor in accordance with all applicable federal, state, and local regulations.

The removal was completed on September 25, 2002. The following table lists the clearance air sampling results:

PROJECT CLEARANCE AIR SAMPLING				
SAMPLE #	DATE	LOCATION	TYPE OF AIR SAMPLE	AIR RESULT
5510-1	9/25/02	Inside work area 1 st Floor	Clearance	<0.005
5510-2	9/25/02	Inside work area 2 nd Floor	Clearance	<0.005

Results of the final clearance sample taken inside the removal areas are below the EPA acceptable clearance levels of .01 f/cc (laboratory analysis is attached).

The facility is ready for use by Fire Department Regional Training. **Live fire training is prohibited when asbestos-containing materials are impacted.** If you have any questions regarding this asbestos project call me at (858) 573-1295.



Don Costello



Hygeia Laboratories Inc.

82 W. Sierra Madre Blvd
Sierra Madre, CA 91024-2434
(626) 355-4711 (626) 355-4497 Fax

NIST/NVLAP Lab Code 102116-0
California ELAP Certificate No. 1269
New York ELAP Certificate No. 11017

Mr. Don Costello
City Of San Diego
9601 Ridgehaven Court, STE 320
San Diego, CA 92123

October 5, 2002

Subject: TEM Analysis of Air Samples
Hygeia Reference: 82472 02 0022
Client Reference: 5510

Dear Mr. Costello:

This report, which includes the attached Summary, contains the results of our analyses of the 2 air samples collected by you and received by this laboratory on 10/3/02. The samples were prepared and analyzed in accordance with 40 CFR, Part 763, Appendix A to Subpart E, Final Rule and Notice, October 30, 1987 for the Asbestos Hazard Emergency Response Act (AHERA) of 1986 using Transmission Electron Microscopy (TEM) with Selective Area Electron Diffraction (SAED) and Energy Dispersive X-ray Analysis (EDXA).

This report contains all TEM count sheets and representative EDXA spectra. This report relates to only those samples tested by this laboratory and must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written approval of this laboratory. Hygeia Laboratories Inc. and its personnel shall not be liable for any misinformation provided to us by the client regarding these samples or for any misuse or interpretation of information supplied by us. Liability shall extend to providing duplicate analysis only. We will retain sample filters for a period of one year and the prepared grids for a period of three years unless otherwise specified.

Hygeia Laboratories Inc. is accredited under the NIST/NVLAP Program for airborne asbestos fiber analysis by Transmission Electron Microscopy and the State of California for asbestos analysis.

If you have any questions regarding your results, this report, or the analytical methods employed, please contact us at (626) 355-4711.

Sincerely
Hygeia Laboratories Inc.

Kyeong Corbin
Supervisor of Electron Microscopy

Gustavo A. Delgado, Ph.D.
Director

Microscope: H-600
Screen Mag (x) 15, 200x
Camera Const (mmA) 29.2
Accelerating Voltage (KeV): 100
Beam Current (uA): 15
Grid Quality ✓
Loading - (Light) Moderate Heavy ✓

Grid Opening Area (mm²) 0.0098
No of Grid Openings 4
Area Analyzed (mm²) 0.0392

Comments:

	Subtotal	0	0	
	<u>0</u>	chrys < 5 μ m		
	<u>0</u>	chrys \geq 5 μ m	<u>0</u>	Total Str
Neg # for Str # _____	<u>0</u>	amph < 5 μ m	<u>< 25.5</u>	s/mm ²
EDS File # for Str # _____	<u>0</u>	amph \geq 5 μ m	<u>< 0.005</u>	s/cc

Date 10-3-02

Hygeia Laboratories Inc.



Hygeia Ref No. 82472 02 0022

Filter Type /EFA (mm2): MCE/385

Microscope: H-600

Lab Sample ID 805329

Pore Size (um): 0.8 0.45 0.22

Screen Mag (x) 15,200x

Client Sample ID 5510-2

Volume (L) 1800

Camera Const (mmA) 29.2

Method AHERA

Accerating Voltage (KeV): 100

Prepared by MEB

Grid Opening Area (mm²) 0.0098

Beam Current (uA): 15

Lab Blank No. 5393B

No of Grid Openings 4

Grid Quality ✓

Area Analyzed (mm²) 0.0392

Loading - Light/Moderate Heavy

[illegible]

Comments:

Subtotal	0	0
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Neg # for Str # _____

EDS File # for Str #

0 chrys < 5µm

 chrys $\geq 5\mu\text{m}$

0 amph < 5 μm

0 amph $\geq 5 \mu\text{m}$

0 Total Str

425,5 s/mm²

40.005 s/cc

Microscopist(s) Ampt Sun

Date 10-3-02



Hygeia Laboratories Inc.

NIST/NVLAP Lab Code 102116-0
California ELAP Certificate No. 1269
New York ELAP Certificate No. 11017

TEM Sample Analysis Report

Analytical Method: AHERA

Hygeia Reference No.: 82472 02 0022
Client Reference: 5510
Date Collected / Sampler: NA NA

Report Date: October 5, 2002
Date Received: October 3, 2002
Date Analyzed: October 3, 2002
Samples Analyzed: 2

Client Sample ID: 5510-1	Sample Description: Air	Area Analyzed (mm ²): 0.0392
Hygeia Sample ID: 805328	Sample Location: NA	Analytical Sens. (S/cc): 0.005
	Sample Volume (L): 1800	SAED Neg #: n/a
Total Structures: 0		EDXA File #: n/a
Structures/mm ² : <25.5	<u>UCL*</u> <u>LCL*</u>	<u>No. of Str.</u> <u>chrysotile</u> <u>amphibole</u>
Structures/cc: <0.005	0.02 0	<5 µm 0 0
Structures/cc ≥ 5 µm: <0.005		≥ 5 µm 0 0


Client Sample ID: 5510-2	Sample Description: Air	Area Analyzed (mm ²): 0.0392
Hygeia Sample ID: 805329	Sample Location: NA	Analytical Sens. (S/cc): 0.005
	Sample Volume (L): 1800	SAED Neg #: n/a
Total Structures: 0		EDXA File #: n/a
Structures/mm ² : <25.5	<u>UCL*</u> <u>LCL*</u>	<u>No. of Str.</u> <u>chrysotile</u> <u>amphibole</u>
Structures/cc: <0.005	0.02 0	<5 µm 0 0
Structures/cc ≥ 5 µm: <0.005		≥ 5 µm 0 0

TEM Sample Analysis Summary

Hygeia Sample ID	Client Sample ID	Structures/cc	Structures/mm ²
805328	5510-1	<0.005	<25.5
805329	5510-2	<0.005	<25.5

* UCL: upper 95% confidence limit LCL: lower 95% confidence limit
< - Less than Analytical Sensitivity


Microscopist Quynh Trieu


Kyeong Corbin - Supervisor of Electron Microscopy

From: Quynh Trien
Date: 10-3-02
Time: 2:40 pm
Confidential: Yes ☒ No ☐

Confidentiality Notice: The documents accompanying this fax transmission contain confidential and privileged information intended for the exclusive use of the individual or entity named above. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of the documents accompanying this fax transmission is strictly prohibited. If you have received this fax in error, please notify us immediately by telephone to arrange for its return. Thank you.

CCSERV., Inc

CLOSE OUT
PACKAGE

N.T.C. FIRE STATION

NON-HAZARDOUS WASTE MANIFEST GENERATOR

Generator Name: CITY OF SAN DIEGO, N.T.C. Building

Mailing Address: City Of San Diego Site Address: N.T.C.
9601 Ridgehaven Court Suite 320 MS1103B Building 88
San Diego, CA 92123-1636 San Diego, CA

Description of Waste Materials	Approval Number	Total Quantity	Unit of Measure	Container Type
Non-Friable Floor Tile	SYL2002-A432	64 BAGS	1 YRD	BAGS

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR Part 261 or any applicable State law, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable regulations.

Generator Name (Print): DON COSTELLO Signature: [Signature] Date: 10/4/02
October 4, 2002

TRANSPORTER

Transporter Name: C.C.Serv., Inc.

Address: 1760 Palm Ave. STE D
San Diego, CA 92154

I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.

Driver Name (Print): DAVID STEVENS Driver Signature: [Signature] Date: Oct. 15, 2002

BILLING CUSTOMER

Customer Name: _____

Account Number: _____

Ticket Number: 568113 / # 1.96

LANDFILL

Site Name: SYCAMORE Landfill Phone: 562-9426

Address: 8514 Mast Blvd. Fax: 449-1050
San Diego, CA 92145

~~Certification of receipt of non-hazardous materials covered by this manifest.~~

Name of Authorized Agent (Print)

Signature

Receipt Date

WHITE: LANDFILL CANARY: GENERATOR PINK: TRANSPORTER GOLDENROD: MISCELLANEOUS



H.M. Pitt Labs, Inc.

2434 Southport Way · Suite L · National City, CA 91950

Lab Number: 42788-19786

Tel: 619-474-8548 · Fax: 619-474-6128

Company:

C.C. Serv., Inc.
1760 Palm Avenue, Suite D
San Diego, Ca 92154

Date Entered: 10/09/2002
Analyzed By: Michael Nave
Customer PO: 1410-23
Contract Number:

Job Site: NTC - Fire Station 2580 Kinkaid Rd., San Diego 92133

Date Sampled 10/09/2002
Who Sampled C.C. Serv

Lab Notes:

EVALUATION: PHASE CONTRAST MICROSCOPY - NIOSH 7400 METHOD

Analysis Number	Customer Number	Date Sampled	PCM Sample Type	Start Time	Stop Time	Flow	Fibers	Fields	Fibers Per CC
42788-1	1	10/01/02	Personal	10/1/02 7:00	10/1/02 12:30	2.5	4	100	<0.01

Location: Jose Oronia - NTC fire station - 1st floor

Comments:

-All samples tested as submitted to the lab. H.M. PITT LABS, INC. does not assume responsibility for the accuracy of the information submitted with the samples unless done by an employee of H.M. PITT LABS, INC.

-Any numerical value which calculates to be less than 0.01 should be viewed as <0.01 due to the inaccuracy of the NIOSH 7400 method at that range.

-Comments such as "Overloaded", "Dirty", "Wet Filter", "Uneven Dispersion of Fibers", or "Torn Filter" illustrate that the analyst found discrepancies or problems with the sample and results are not considered accurate.

APPROVED BY:

Dated: 10/10/2002

LELAND S. PITT, CIH



H.M. Pitt Labs, Inc

2434 Southport Way · Suite L · National City, CA 91950

Lab Number: 42537-19333

Tel: 619-474-8548 · Fax: 619-474-6128

Company:

C.C. Serv., Inc.
1760 Palm Avenue, Suite D
San Diego, Ca 92154

Date Entered: 09/30/2002
Analyzed By: Jennifer Rosales
Customer PO: 1410-23
Contract Number:

Job Site: Naval Training Center - Fire Station, Point Loma

Date Sampled 09/30/2002
Who Sampled C.C. Serv

Lab Notes:

EVALUATION: PHASE CONTRAST MICROSCOPY - NIOSH 7400 METHOD

Analysis Number	Customer Number	Date Sampled	PCM Sample Type	Start Time	Stop Time	Flow	Fibers	Fields	Fibers Per CC
42537-1	01	09/25/02	Personal	9/25/02 8:00	9/25/02 12:00	2.5	0	100	<0.01

Location: Miguel Marquez - Training Room

Comments:

-All samples tested as submitted to the lab. H.M. PITT LABS, INC. does not assume responsibility for the accuracy of the information submitted with the samples unless done by an employee of H.M. PITT LABS, INC.

-Any numerical value which calculates to be less than 0.01 should be viewed as <0.01 due to the inaccuracy of the NIOSH 7400 method at that range.

-Comments such as "Overloaded", "Dirty", "Wet Filter", "Uneven Dispersion of Fibers", or "Torn Filter" illustrate that the analyst found discrepancies or problems with the sample and results are not considered accurate.

APPROVED BY:

Leland S. Pitt

Date: 10/09/2002

LELAND S. PITT, CIH



H.M. Pitt Labs, Inc

2434 Southport Way • Suite L • National City, CA 91950

Lab Number: 42858-19918

Tel: 619-474-8548 • Fax: 619-474-6128

Company:

C.C. Serv., Inc.
1760 Palm Avenue, Suite D
San Diego, Ca 92154

Date Entered: 10/11/2002

Analyzed By:

Customer PO:

Contract Number:

Job Site: 2850 Kinkaid Rd., San Diego

Date Sampled Who Sampled

09/30/2002 C.C. Serv

Lab Notes:

EVALUATION: PHASE CONTRAST MICROSCOPY - NIOSH 7400 METHOD

Analysis Number	Customer Number	Date Sampled	PCM Sample Type	Start Time	Stop Time	Flow	Fibers	Fields	Fibers Per CC
42858-1	01	09/30/02	Personal	9/30/02 9:00	9/30/02 15:00	2.5	15	100	<0.01

Location: Miriam Camarena - NTC Bldg. 88

Comments:

-All samples tested as submitted to the lab. H.M. PITT LABS, INC. does not assume responsibility for the accuracy of the information submitted with the samples unless done by an employee of H.M. PITT LABS, INC.

-Any numerical value which calculates to be less than 0.01 should be viewed as <0.01 due to the inaccuracy of the NIOSH 7400 method at that range.

-Comments such as "Overloaded", "Dirty", "Wet Filter", "Uneven Dispersionment of Fibers", or "Tom Filter" illustrate that the analyst found discrepancies or problems with the sample and results are not considered accurate.

APPROVED BY:

Leland S. Pitt

Dated: 10/14/2002

LELAND S. PITT, CM

